www.eurotronic.org

SPARmatic comet.

programmable energy-saving
radiator thermostat

User manual and Guarantee

EUROtronic
Technology GmbH

By the way…

Do you already know about *PROGmatic*? – You can programme *SPARmatic comet* by hand or you can use our convenient programming stick to copy your personally specified heating and economy times onto all your EUROtronic energy-saving radiator thermostats at your home which have a programming port in a matter of seconds.

***PROGmatic* is available from specialised stores and at:**
www.eurotronic.org

Index

4 – Scope of delivery, application as directed
5 – Display and control elements
6 – Set up menu
7 – Inserting / replacing batteries
8 – Setting date and time
9 – Installation
10 – Dismounting
11 – Adaptation
12 – Basic operating modes
13 – Setting heating and economy times
14 – Setting comfort and economy temperature
15 – Manual operation
15 – Additional setting possibilities
19 – Cleaning and used devices
20 – Adapter
21 – Help
22 – Declaration of Conformity and Guarantee

Please read the user manual before you place the thermostat. Keep the documents for later questions and provide them if you pass the thermostat on to other persons.

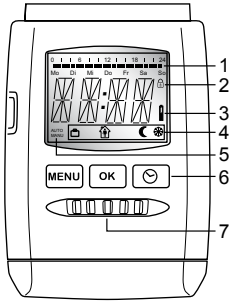
Scope of delivery
1 *SPARmatic comet*
energy saving radiator thermostat
1 User manual
1 Connector
3 Adapters

Application as directed
By purchasing the *SPARmatic comet* energy-saving radiator thermostat you own a programmable radiator thermostat which can be used for temperature regulations in enclosed rooms and therefore, it can contribute to the reduction of heating energy. – Please use the thermostat only for this purpose.

The EUROtronic programming port is intended ONLY for our EUROtronic programming stick. **Never** connect other devices with the programming port!

Display and control elements

1 Heating times
2 Child lock active
3 Battery low
4.a Travel function active
4.b Comfort temperature active
4.c Economy temperature active
4.d Window/freeze protection function active
5. AUTO or MANU mode active
6.a Button MENU – leads to the main menu (starting from regular display); within the menu one keypress leads to the previous level
6.b Button OK – confirmation of setting
6.c Button ⏲ – timer function
7 Selector wheel



Set up menu

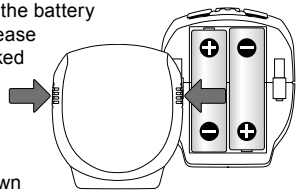
By pressing MENU you will arrive at the set up menu. Please choose one of the items with the selector wheel. With OK you can select one menu item and with the selection wheel they can be adjusted. The button OK confirms the setting. The button MENU leads to the previous level.

MODE	to select the mode AUTO = automatic mode MANU = manual mode
PROG	setting of time programme
TEMP	setting of comfort and economy temperature
ZEIT	setting of date and time
FENS	window function
RES	reset of the device to factory preset
ADAP	starting of a new adaptation to adjust the valve
URLA	travel function
INST	installation function
OFFS	adaptation of temperature to the room situation
STBY	standby function

Inserting / replacing batteries

In order to open the battery compartment please push at the marked positions to remove the cover.

Then insert the batteries as shown in the illustration.



Do not use accumulators!
Ensure that the polarity is correct!

Attention:
Never recharge batteries, danger of explosion! Do not short-circuit batteries! Do not disassemble batteries! Take low batteries out of the device immediately. Keep batteries away from extreme warming – danger of leakage! Do not apply used and new batteries together. If needed, clean the battery and the contacts before using them. Keep the batteries away from children. When getting in touch with battery acid instantly irrigate the affected parts with clear water and call a doctor.

Setting date and time

After inserting the batteriesy for the first time the date will flash on the display. Now, date and time can be set.

Set date with the selector wheel.
Confirm with OK.

Set month with the selector wheel.
Confirm with OK.

Set day with the selector wheel. Confirm with OK.

Set hour with the selector wheel.
Confirm with OK.

Set minute with the selector wheel.
Confirm with OK – That´s it.

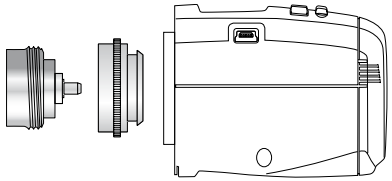
On the display PREP will be shown. Now, the motor will completely move to the installation position in order to make the installation easier. As soon as *SPARmatic comet* is ready for installation INST will be shown on the display.

You can also set date and time via the menu item ZEIT later on. But in case of that, *SPARmatic comet* does not move to the installation position.

➔ In case of replacing batteries, the stored time programme will remain active. You should check the specified time to ensure that.

Installation

SPARmatic comet can be quickly and easily mounted on all common valves (see adapter table). It can be installed without grime and water spots because the heating circuit is not interrupted.

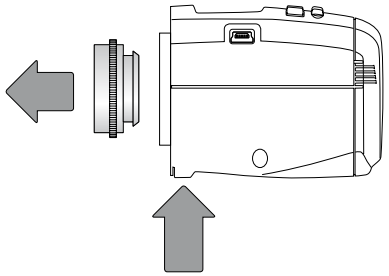


1. Turn the manual thermostat head up completely, loosen the fastening and pull the thermostat off of the valve.
2. Use an appropriate adapter, if required, and push it onto the valve.
3. Screw the connector on the valve or the adapter.
4. Now, you put SPARmatic comet on the connector until it noticeably clicks into place.

Additional information about the different adapters are provided on page 20 or at:
www.eurotronic.org

➔ In case of a **later installation**, please switch in the menu to INST **before** you install the device. Herewith the installation is facilitated.

Dismounting



➔ In order to dismount *SPARmatic comet* press the releasing device to loosen the locking device. Now, pull the *SPARmatic comet* off of the valve.

Adaptation

Initial installation: Press the button [OK] until ADAP appears on the display so that *SPARmatic comet* will be able to start its adaptation. The device will adapt itself to the stroke of your valve body. To do this the valve will now be opened and closed several times to store the end points.
In some cases this process can take a few minutes. After successful adaptation it returns to normal mode.

➔ Should adaptation become necessary again, e.g. if your radiator does not cool down in the RUS-Position, please press in the menu the button ADAP until adaptation starts again.

➔ If the mistake E2 is shown on the display place *SPARmatic comet* onto the radiator valve and then take the batteries out for a short time in order to execute a reset.

Basic operating modes

MANU-mode
In the MANU-mode *SPARmatic comet* adjusts to the manually specified temperature.

AUTO-mode
In the AUTO-mode *SPARmatic comet* changes between to temperatures according to the time programme that has been set:

comfort temperature (factory preset 21°C)
economy temperature (factory preset 16°C)

The heating and economy times can be specified via the adjustable time programme. It is possible to set 8 switch points (4 heating and 4 economy times) per day at the most. *SPARmatic comet* has the following factory preset:

Heating time:
Heating with comfort temperature
(factory preset: 1st heating time at 07:00)

Economy time:
lowering to economy temperature
(factory preset: 1st economy time at 22:00)

Setting heating and economy times

With *SPARmatic comet* it is possible to set 4 heating and 4 economy times per day – one for each day or one for a block of several days.
TAG1 to TAG7 represent the weekdays from Monday to Sunday. Additionally, the corresponding days are shown as abbreviation below the menu bar on the display.

Block construction:
T1–5 = same programme from Monday to Friday
T1–6 = same programme from Monday to Saturday
T1–7 = same programme from Monday to Sunday

➔ For non-programmed days the factory preset remains active.

Setting of an individual programme:
Press [MENU]. Select the menu item PROG with the selector wheel. Press [OK].

TAG1 for Monday is shown on the display.

Select day/block with the selector wheel.
Confirm with [OK].

Set the beginning of the 1st heating time (symbol) with the selector wheel. Confirm with [OK].

Set the beginning of the 1st economy time (symbol) with the selector wheel. Confirm with [OK].

Now, if desired, a 2nd, 3rd or 4th heating/economy time can be entered.

➔ - If you do not want to set a further heating/economy time confirm „- - - -“ with [OK].

The next day for programming is shown on the display.

➔ If you do not want to enter a further day, leave the menu with [MENU]. If the temperature is shown on the display the programming is finished.

➔ Within the blocks you can also overwrite single days with differing times.

Setting comfort and economy temperature

Press [MENU]. Select the menu item TEMP with the selector wheel. Confirm with [OK]. Set comfort temperature with the selector wheel. Confirm with [OK]. Set the economy temperature with the selector wheel. Confirm with [OK].

Area RUS**:** 8°C, freeze protection function is active
Area EIN**:** valve is completely open

➔ **By the way:** Maximum energy saving can be obtained with an economy temperature which is about 5°C below the comfort temperature.

Manual operation

With the selector wheel an adaptation of the room temperature is possible at any time. In the AUTO-mode it remains active until the next switch point is reached. Now, the usual programme becomes active again.

Further functions

Timer function
The timer function is selected with the timer-button [⏲]. With this function a user-defined temperature for a programmable period can be entered. This can be very useful in case of a party, for example. Press [⏲]. First, the time for which the time programme has been deactivated is shown. Confirm with [OK]. Now, the desired temperature can be set. Confirm with [OK].

Offset
If the perceived temperature significantly differs from the set thermostat temperature a temperature set up can be executed.
Press [MENU]. Select the menu item OFFS with the selector wheel. Confirm with [OK]. The degree setting 0,0°C will flash on the display. Now, set up the desired adaptation for the temperature (from -5 up to +5°C) with the selector wheel. Confirm your entry with [OK]. The temperature display does not change!

Window function
If you open a window and consequently the temperature **drops significantly**, *SPARmatic comet* will automatically close the heating valve in order to save energy. The display will show ✻. Afterwards, *SPARmatic comet* will resume normal operation.
For the set up select FENS in the menu. Confirm with [OK]. First, the sensibility is selected with the selector wheel (HIGH = high sensibility, MID = medium sensibility (factory preset), LOW = low sensibility). Confirm with [OK]. Now, you enter the time (10 min (factory preset) - 60 min) for which the valve should remain closed. Confirm with [OK].

Travel function
For the time you are absent you can select an individual temperature. After this period the originally defined programme becomes active again.
Press [MENU]. Select the menu item URLA. Confirm with [OK] (suitcase appears on the display). Select with the selector wheel the end of the travel function (= date of the recommencement of the regular heating times). Confirm with [OK]. Set the time and confirm with the button [OK]. The signal AUS appears on the display. Now set the temperature and confirm with [OK]. appears on the display. With [MENU] the function can be deactivated.

Child lock
You can lock *SPARmatic comet* to protect the device from unauthorized activation.
Press the buttons [OK] + [⏲] at the same time for about 2 seconds until the signal appears on the display in order to lock the device. By using this button combination again the symbol disappears and you release the lock.

Heating pause – Closing the *SPARmatic comet*
Press [MENU]. Select the menu item MODE with the selector wheel. Confirm with [OK]. Select MANU and confirm with [OK]. Set the temperature on the display to AUS. The valve is now closed and will work without a time programme. The calcification protection function remains active once a week. After the heating pause you switch in the menu to the AUTO-mode and the personally set programme will be executed again.

LCD standby indicator
Press [MENU]. Select STBY with the selector wheel. Confirm with the [OK] button and select EINAUS with the selector wheel. After about 30 seconds, the LCD indicator switches into standby mode. By pressing any button, the display will be activated again. (by removing the battery, standby mode will be reseted). Increases the battery life time. (This function depends on device version)

Going back to factory preset / All reset
Press [MENU]. Select the menu item RES with the selector wheel. Confirm with [OK]. OK flashes, confirm with [OK]. *SPARmatic comet* is reset again. Now, proceed as described for the initial operation (see p. 8).

Freeze protection and calcification protection function are active automatically:

Freeze protection function
If the temperature drops below 6°C, *SPARmatic comet* opens the valve until the temperature again rises above 8°C. This prevents the radiators from freezing.

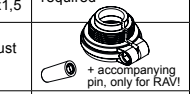
Calcification protection function
To prevent radiator valves from calcifying *SPARmatic comet* is submitted to a calcification protection programme once a week on Friday mornings.

Cleaning and used devices

Cleaning
To clean the *SPARmatic comet* use only a dry or lightly wet cloth. Avoid chemical solvent – it can probably damage the device.

Used devices
Do not throw old devices and packaging into the household waste. They can be recycled. You receive further information at your local government.

Adapters

Heimeier, Junkers Landys+Gyr, MNG, Honeywell, Braukmann thread-measure dimension of M 30x1,5	no adapter required
Danfoss RAV (accompanying pin must be plugged on the valve tapped)	
Danfoss RA	
Danfoss RAVL	

For more information about additional messing adapters and the prices, please see the following website: **www.eurotronic.org**

Help

Problem	Cause	Solution
	Batteries do not have enough power.	Replace batteries.
Heating element does not warm up.	Is the boiler water temperature O.K.? Valve does not open, is it calcified after the summer pause / heating pause?	Adjust the temperature of the boiler water. Remove the *SPARmatic comet*, move the valve stem back and forth per hand or with a tool.

Problem	Cause	Solution
Heating element does not cool down.	Valve does not close completely. It may be that the closing point of your valve seat has shifted.	Adapt again (see "Adapting") Move the valve stem several times by hand, it may be that adaptation is impossible because your valve is calcified or the seat no longer performs its function.
Pressure piece falls out (This can also cause an E1-error)	Due to an endless-thread the pressure piece, which is situated at the bottom, can fall out if the device has not been affixed on the valve.	Put in the pressure piece. The device can be adapted by pressing the [MENU]-point or by removing and inserting the batteries. The endless-thread is rotating now and fixes the pressure piece again. Just install it to the radiator and adapt it once again.
E1	No adaptation possible. *SPARmatic comet* is not installed to the heater.	Is the installation OK? Install *SPARmatic comet* to the heater.
E2	Valve stroke is too short.	Open and close the valve several times manually or replace the batteries.
E3	Motor movement is not possible.	Does the valve stem move freely?

Declaration of Conformity

The Declaration of Conformity is provided at: www.eurotronic.org

Guarantee

The three-year warranty begins on the day of purchase. Please keep the receipt as evidence of purchase in the future. During the guarantee period, defective radiator thermostats may be sent to the service address below. Please ensure sufficient postage is paid. A new or repaired device will then be sent to you free of charge. Following expiry of the guarantee, you may still send the defective device to the address below for repairs. Please ensure sufficient postage is paid. Repairs carried out after the guarantee period are subject to a charge. Your legal rights are not affected by this guarantee.

There is no new warranty period starting when repairing or replacing the device. Please note that we only grant warranty on the function of the device. We will not grant warranty for the interaction between the thermostat and the bottom part of the valve. The technical data is only valid for the use

of the following valves: Heimeier, Junkers Landys + Gyr, MNG, Honeywell, Braukmann (measure of thread M330 x 1,5), Oventrop (M30 x 1,5) Danfoss RA, RAV and RAVL. Please see the combinations of the devices on our website (www.eurotronic.org/ Adapter list)

EUROtronic does not issue a guarantee when using the thermostat with valves which are not mentioned above.

Eurotronic Technology GmbH
Südweg 1 · 36396 Steinau-Ulmbach
Germany
Phone: +49 (0)6667/91847-0
e-mail: info@eurotronic.org
Internet: www.eurotronic.org

www.eurotronic.org
pack.-no. 9000000257 | Stand: 2011/10